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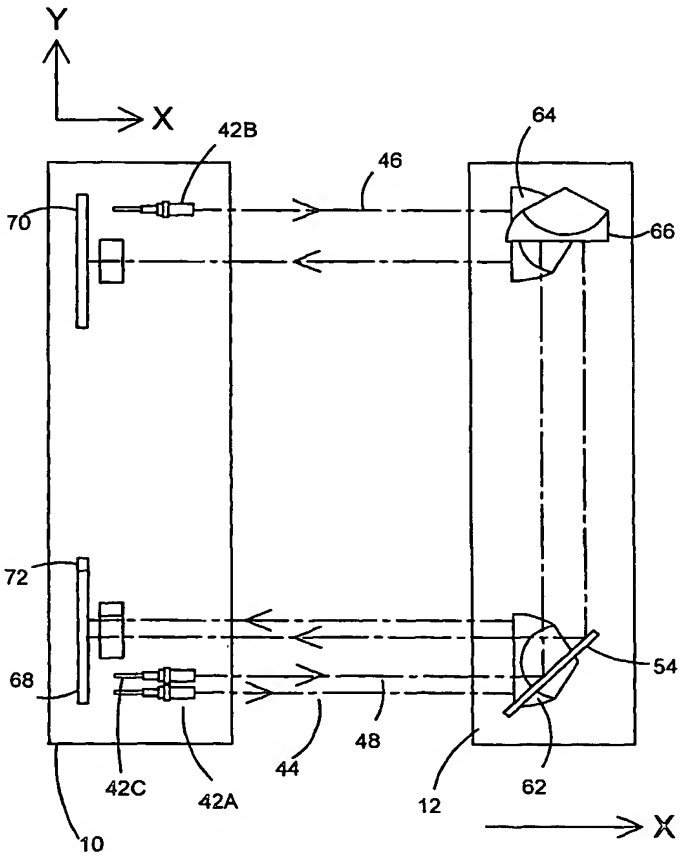
(54) Title: LASER CALIBRATION APPARATUS



(57) Abstract: Apparatus for measuring deviation of a trajectory from a straight line in the movement of a first body with respect to a second body comprising a transmitter unit mounted on one of the bodies and an optic unit mounted on the other of the bodies. The transmitter unit directs at least one light beam towards the optic unit such that two or more light beams are received within it. One of the units is provided with two or more detectors to detect the light beams transmitted to or reflected from the optic unit. The position of the light beams on the detectors is used to calculate the deviation of a trajectory from a straight line of one of the bodies with respect to the other in at least one degree of freedom. This enables measurement of straightness, pitch, roll, yaw and squareness errors.

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